VPN server with Ubuntu

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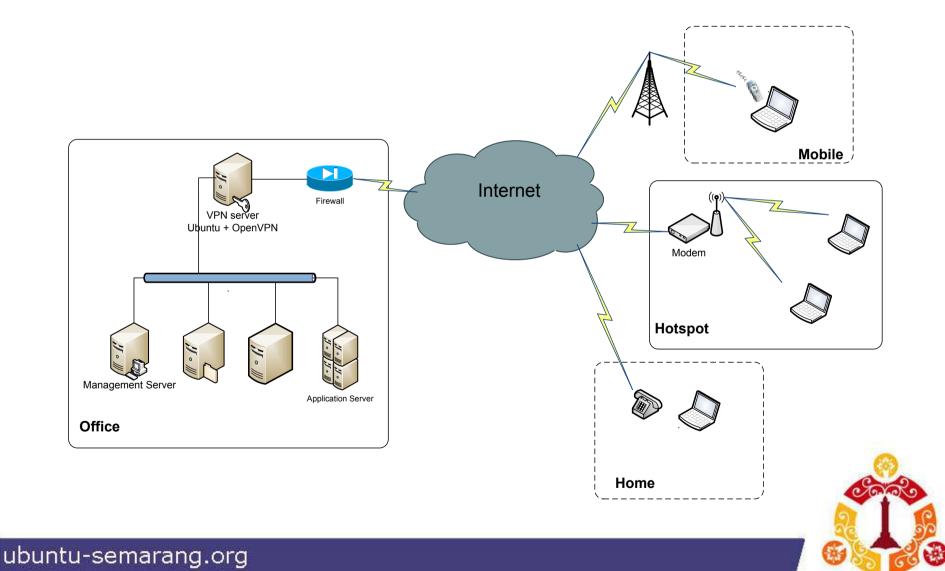


Ubuntu - OpenVPN

- OpenVPN: SSL VPN
- Tidak kompatibel dengan IPSec, L2TP, PPTP
- Portable: runs on Linux, Solaris,
 OpenBSD, FreeBSD, NetBSD, Mac OS X,
 and Windows 2000/XP



Konfigurasi Jaringan



1. Install OpenVPN#apt-get install openvpn openssl

Copy direktori examples #cp -R /usr/share/doc/openvpn/examples/ /etc/openvpn/

2. RSA key managementMasuk ke direktori easy-rsa#cd /etc/openvpn/examples/easy-rsa/



```
#vi ./vars
export D=/etc/openvpn
export KEY_CONFIG=$D/openssl.cnf
export KEY_DIR=$D/keys
export KEY_SIZE=2048
export KEY_COUNTRY=ID
export KEY_PROVINCE="Jawa Tengah"
export KEY_CITY="Semarang"
export KEY_ORG="ubuntu-semarang.org"
export KEY_EMAIL="hafidzkoe@yahoo.com"
export KEY_COMMON="ubuntu"
```



Mulai konfigurasi server #. vars

Copy file openssl.cnf ke direktori /etc/openvpn #cp openssl.cnf /etc/openvpn #./clean-all

Buat CERTIFICATE AUTHORITY (CA) CERTIFICATE/KEY #./build-ca ca.crt dan ca.key akan tersimpan di direktori key



```
Membuat server key
#./build-key-server server
Pastikan informasi yang dimasukkan sama dengan informasi
waktu menjalankan build-ca. Sehingga konfirmasi Sign
Certificate dan Commit keluar.
```

```
Generate key untuk client
#./build-key client1
#./build-key client2
#./build-key client3
... dst tergantung jumlah client yang diijinkan mengakses
```

Membuat parameter DH (Diffie Hellman) ./build-dh



3. Buat konfigurasi server

#vi /etc/openvpn/server.conf

port 1194 proto udp dev tap ca /etc/openvpn/keys/ca.crt cert /etc/openvpn/keys/server.crt key /etc/openvpn/keys/server.key dh /etc/openvpn/keys/dh2048.pem ifconfig 10.20.100.1 255.255.255.0 ifconfig-pool 10.20.100.2 10.20.100.10 255.255.255.0 server 10.20.100.0 255.255.255.0

user nobody group nogroup key-method 2 persist-key persist-tun status openvpn-status.log verb 3 push "route 10.11.129.0 255.255.255.0" keepalive 10 120 comp-lzo



4. Menjalankan OpenVPN#/etc/init.d/openvpn start



OpenVPN client

- 1. Install OpenVPN#apt-get install openvpn openssl
- 2. copy key & sertifikat "ca.crt", "client.key", "client.crt" dari direktori keys di server ke pc client.



OpenVPN client

- 3. Buat konfigurasi client #vi /etc/openvpn/openvpn.conf dev tap ifconfig 10.20.100.2 255.255.255.0 port 1194 verb 3 remote [ip.open.vpn.server] ca /etc/openvpn/keys/ca.crt cert /etc/openvpn/keys/client1.crt key /etc/openvpn/keys/client1.key
- 4. Jalakan openvpn#/etc/init.d/openvpn start

